

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | | |
|--|--|----|--|
| (51) International Patent Classification ⁷ : G01N 1/34 | | A1 | (11) International Publication Number: WO 00/54023 (43) International Publication Date: 14 September 2000 (14.09.00) |
| (21) International Application Number: | PCT/NL00/00141 | | (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). |
| (22) International Filing Date: | 3 March 2000 (03.03.00) | | |
| (30) Priority Data: | 1011475 5 March 1999 (05.03.99) 1011924 28 April 1999 (28.04.99) | NL | |
| (71) Applicant (<i>for all designated States except US</i>): | SPARK HOLLAND B.V. [NL/NL]; P.O. Box 388, NL-7800 AJ Emmen (NL). | | |
| (72) Inventors; and | | | Published |
| (75) Inventors/Applicants (<i>for US only</i>): | HAAK, Gerhardus, Sjöerd, Jozef [NL/NL]; Ronerbrink 59, NL-7812 LV Emmen (NL). OOMS, Jan, Albert [NL/NL]; Grijze Kraai 31, NL-7827 JX Emmen (NL). HIDDING, Johannes, Hendrik [NL/NL]; Mepperdennenweg 5, NL-7855 PN Meppen (NL). HALMINGH, Otto [NL/NL]; Dopheide 17, NL-7873 CC Odoorn (NL). | | <i>With international search report.</i> |
| (74) Agent: | JORRITSMA, Ruurd; Nederlandsch Octrooibureau, Scheveningseweg 82, P.O. Box 29720, NL-2502 LS The Hague (NL). | | |

(54) Title: SOLID PHASE EXTRACTION INSTRUMENT AND METHOD FOR SOLID PHASE EXTRACTION

(57) Abstract

The invention relates to a solid phase extraction process that comprises one or more of the following steps: a) conditioning a sorbent in a cartridge, a liquid suitable for conditioning being passed through the cartridge; b) applying a sample that contains the analyte to the sorbent, a liquid which contains the sample being passed through the cartridge; c) washing the sorbent, a wash liquid being passed through the cartridge; d) eluting the analyte from the sorbent, an elution liquid being passed through the cartridge. According to the invention the temperature of the cartridge is controlled during one or more of steps a) to d). In this context the temperature of the cartridge is in particular controlled by heating or cooling one or more of the liquids used in step a) to d) before feeding it to the cartridge.